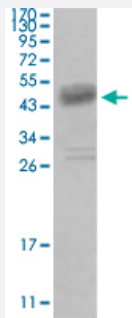


# DDR1 monoclonal antibody, clone 2G4E12

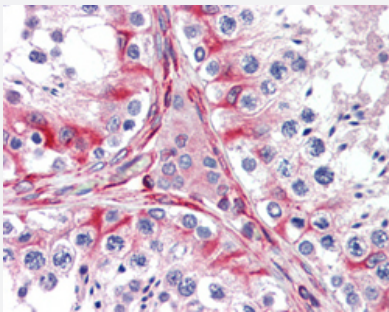
Catalog # MAB12603      Size 50 uL

## Applications



### Western Blot (Recombinant protein)

Western blot analysis of truncated DDR1 recombinant protein with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human testis with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603) at 1:200 dilution.

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against human DDR1.
<b>Immunogen</b>	Recombinant protein corresponding to amino acids 602-681 of human DDR1.
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Isotype</b>	IgG1

<b>Recommend Usage</b>	ELISA (1:10000) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200-1:300) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In ascites (0.03% sodium azide).
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Recombinant protein)

Western blot analysis of truncated DDR1 recombinant protein with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human testis with DDR1 monoclonal antibody, clone 2G4E12 (Cat # MAB12603) at 1:200 dilution.

- Enzyme-linked Immunoabsorbent Assay

## Gene Info — DDR1

<b>Entrez GeneID</b>	<a href="#">780</a>
<b>Gene Name</b>	DDR1
<b>Gene Alias</b>	CAK, CD167, DDR, EDDR1, MCK10, NEP, NTRK4, PTK3, PTK3A, RTK6, TRKE
<b>Gene Description</b>	discoidin domain receptor tyrosine kinase 1
<b>Omim ID</b>	<a href="#">600408</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>

## Gene Summary

Receptor tyrosine kinases (RTKs) play a key role in the communication of cells with their microenvironment. These molecules are involved in the regulation of cell growth, differentiation and metabolism. The protein encoded by this gene is a RTK that is widely expressed in normal and transformed epithelial cells and is activated by various types of collagen. This protein belongs to a subfamily of tyrosine kinase receptors with a homology region to the Dictyostelium discoideum protein discoidin I in their extracellular domain. Its autophosphorylation is achieved by all collagens so far tested (type I to type VI). In situ studies and Northern-blot analysis showed that expression of this encoded protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, this protein is significantly over-expressed in several human tumors from breast, ovarian, esophageal, and pediatric brain. This gene is located on chromosome 6p21.3 in proximity to several HLA class I genes. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq]

## Other Designations

OTTHUMP00000029343|OTTHUMP00000029344|OTTHUMP00000029345|OTTHUMP00000029346|OTTHUMP00000029347|PTK3A protein tyrosine kinase 3A|cell adhesion kinase|discoidin domain receptor DDR1d|discoidin domain receptor family, member 1|discoidin receptor tyrosine kinase

## Disease

- [Abortion](#)
- [Arthritis](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Leukemia](#)
- [Lupus Erythematosus](#)
- [Schizophrenia](#)
- [Vitiligo](#)